

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
12 October 2000 (12.10.2000)

PCT

(10) International Publication Number  
WO 00/60522 A3

- (51) International Patent Classification?: G06F 19/00
- (21) International Application Number: PCT/US00/08579
- (22) International Filing Date: 31 March 2000 (31.03.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/127,436 1 April 1999 (01.04.1999) US
- (71) Applicant (for all designated States except US): ACIST MEDICAL SYSTEMS, INC. [US/US]; Suite 150, 7450 Flying Cloud Drive, Eden Prairie, MN 55344 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): DUCHON, Douglas, J. [US/US]; 9630 Foxford Road, Chanhassen, MN 55317 (US). WILSON, Robert, F. [US/US]; 3107 W. Owasso, Roseville, MN (US).
- (74) Agent: INSKEEP, James, W.; Oppenheimer Wolff & Donnelly LLP, Suite 3800, 2029 Century Park East, Los Angeles, CA 90067-3024 (US).
- (81) Designated States (national): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— With international search report.  
— Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.
- (88) Date of publication of the international search report:  
18 January 2001
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 00/60522 A3

(54) Title: AN INTEGRATED MEDICAL INFORMATION MANAGEMENT AND MEDICAL DEVICE CONTROL SYSTEM AND METHOD

(57) Abstract: An integrated medical information management and medical device control system and method are described that links multiple users and multiple medical devices together in a coordinated fashion. The linkage of users and medical devices is accomplished using a bi-directional network and a centralized host system. Users of the system are able to communicate with each other, operate medical devices from remote locations, access information from diverse sources automatically monitor a patent's status.

INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 00/08579

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G06F19/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 822 544 A (VINCENS JOE ET AL) 13 October 1998 (1998-10-13) abstract column 1, line 36 -column 2, line 4 column 3, line 17 -column 3, line 47 column 7, line 50 -column 7, line 67	1-10
A	H LEE ET AL: "REMOTE PATIENT MONITORING SERVICE THROUGH WORLD-WIDE WEB" ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY, US, NEW YORK, NY: IEEE, 30 October 1997 (1997-10-30), pages 928-931, XP002129894 ISBN: 0-7803-4263-1 the whole document	3

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

25 October 2000

Date of mailing of the international search report

09/11/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo.nl,  
Fax: (+31-70) 340-3016

Authorized officer

Triest, J

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/uS 00/08579

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 854 324 A (HIRSCHMAN ALAN D ET AL) 8 August 1989 (1989-08-08) abstract	10
X	XIN LI ET AL: "A World Wide Web telemedicine system" PROCEEDINGS OF THE SPIE, US, SPIE, BELLINGHAM, VA, vol. 2711, 13 February 1996 (1996-02-13), pages 427-439, XP002083082 abstract	11-17
X	N.N.: "UMLS Knowledge Source Server Fact Sheet" US NATIONAL LIBRARY OF MEDICINE, 'Online! 19 February 1998 (1998-02-19), pages 1-4, XP002151056 Retrieved from the Internet: <URL:http://www.nlm.nih.gov/pubs/factsheet s/umlskss.html> 'retrieved on 2000-10-24! the whole document	11-17
A	MUNCHENBERG J ET AL: "Expert supported operation planning in the maxillofacial surgery" CAR '98. COMPUTER ASSISTED RADIOLOGY AND SURGERY. PROCEEDINGS OF THE 12TH INTERNATIONAL SYMPOSIUM AND EXHIBITION, PROCEEDING OF 12TH INTERNATIONAL SYMPOSIUM ON COMPUTER ASSISTED RADIOLOGY AND SURGERY, TOKYO, JAPAN, 24-27 JUNE 1998, pages 558-563, XP002151057 1998, Amsterdam, Netherlands, Elsevier Science, Netherlands ISBN: 0-444-82973-3 abstract paragraph '0001! paragraph '02.3! paragraph '02.4!	11,14

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/uS 00/08579

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5822544 A	13-10-1998	US 5465082 A	07-11-1995
		US 5291399 A	01-03-1994
		AT 179535 T	15-05-1999
		AU 691491 B	21-05-1998
		AU 6394494 A	11-10-1994
		CA 2157405 A	29-09-1994
		DE 69418188 D	02-06-1999
		DE 69418188 T	23-12-1999
		EP 0689699 A	03-01-1996
		ES 2132398 T	16-08-1999
		WO 9422098 A	29-09-1994
		US 5594786 A	14-01-1997
		US 5689229 A	18-11-1997
-----			
US 4854324 A	08-08-1989	NONE	
-----			